



# KRAMER

## TP-583R

4K HDR HDMI Receiver with RS-232 & IR  
over Long-Reach HDBaseT

| HDMI | HDBaseT | 4K/60 UHD (4:4:4)



TP-583R is a high-performance, long-reach HDBaseT receiver for 4K HDR HDMI, RS-232 and IR signals over twisted pair. TP-583R converts the HDBaseT signal and outputs it to its HDMI and control ports. It enables extending video signals to up to 70m (230ft) over Kramer copper cables at up to 4K@60Hz (4:4:4) video resolutions. It is compatible with standard HDBaseT-compliant extenders at 4K@30Hz and HD video resolutions

## FEATURES

**High Performance Standard Extender** - Professional HDBaseT extenders for providing long-reach signals over twisted-pair copper infrastructures. TP-583T and TP-583R are standard extenders with backward compatibility with other standard HDBT extenders enabling them to be connected to any market-available HDBaseT-compliant extension product. They employ low-level video compression technology that delivers visually lossless performance for 4K@60 (4:4:4) and HDR signals with near-zero latency

**Intelligent Compression Handling** - Automatically detects a standard HDBaseT extender without compression and disables the compression to extend the signal in compliance with the detected extender

**HDMI Signal Extension** - HDR HDMI 2.0 and HDCP 2.2 compliant. Supports deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D. EDID and CEC signals are passed through from the source to the display

**I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent hand pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems

**Multi-channel Audio Extension** - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound

**Bidirectional RS-232 Extension** - Serial interface data flows in both directions, allowing data transmission and device control

**Bidirectional Infrared Extension** - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line

**Cost-Effective Maintenance** - Status LED indicators for HDMI and HDBT ports facilitate easy local maintenance and troubleshooting. Local firmware upgrade via RS-232 connection ensures lasting, field-proven deployment

**Easy Installation** - Compact DigiTOOLS® fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 3 units in a 1U rack space with the recommended rack adapter



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## TECHNICAL SPECIFICATIONS

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Inputs	1 HDBT: On an RJ-45 connector
Outputs	1 HDMI: On a female HDMI connector
Ports	1 RS-232: On a 3-pin terminal block connector for serial link extension 1 IR: On a 3.5mm mini jack connector
STANDARD COMPRESSION EXTENSION:	Up to 40m (130ft) at 4K@60Hz (4:4:4) or 4K@60Hz (4:2:0)  Up to 70m (230ft) at 4K@30Hz (4:4:4) or full HD (1080p @60Hz 36bpp)
HIGH COMPRESSION EXTENSION:	Up to 70m (230ft) at 4K@60Hz (4:4:4), 4K@60Hz (4:2:0), or full HD (1080p @60Hz 36bpp)  Note: When using recommended Kramer cables Standards Compliance: HDBaseT 1.0
Video	Max Data Rate: Up to 18Gbps (6Gbps per graphic channel) Standard Compression Max Resolution: 4096x2160@60Hz (4:4:4) 24bpp High Compression Max Resolution: 3840x2160@60Hz (4:4:4) 24bpp Compliance: HDMI 2.0, HDCP 2.2, HDR 10
EXTENDED BIDIRECTIONAL RS-232:	300 to 115200 baud rate
EXTENDED BIDIRECTIONAL IR:	20kHz to 100kHz frequency
User Interface	Indicators: IN, OUT, LINK and ON LEDs Controls: DIP-switches
Power	Source: 12V DC, 2A Consumption: 680mA
Environmental Conditions	Operating Temperature: 0° to +40°C (32° to 104°F)  Storage Temperature: -40° to +70°C (-40° to 158°F)  Humidity: 10% to 90%, RHL non-condensing
Regulatory Compliance (Standards Compliance)	Safety: CE, UL  Environmental: RoHs, WEEE
Enclosure	Size: DigiTOOLS® Type: Aluminum Cooling: Convection ventilation
Accessories	Included: Power adapter, power cord, bracket set
PRODUCT DIMENSION:	12.00cm x 7.15cm x 2.44cm (4.72" x 2.81" x 0.96" ) W, D, H
PRODUCT WEIGHT:	0.3kg (0.6lbs) approx

SHIPPING  
DIMENSION:

15.70cm x 12.00cm x 8.70cm (6.18" x 4.72" x 3.43" ) W, D, H

SHIPPING WEIGHT: 0.7kg (1.5lbs) approx

